ARIZONA DEPARTMENT OF WATER RESOURCES

Community Water Systems
SYSTEM WATER PLAN
2nd Five-year Update (Due 1/1/2017)

_____
Community Water System Name

91- _____
Community Water System Number

Community water systems are required to submit a System Water Plan update every five years (A.R.S. § 45-342). A community water system is a public water system that serves at least fifteen service connections or twenty-five year-round residents.

The system water plan has three components:

- Water Supply Plan
- Drought Preparedness Plan
- Water Conservation Plan

Instructions are listed under each section of this form.

Exemptions

- Systems with a Designation of Assured or Adequate Water Supply may skip Part 1: Water Plan.

- Systems that are located in Active Management Areas (AMAs) and that are regulated under one of the programs for large municipal water providers (serve more than 250 acre-feet water per year) may skip Part 3: Conservation Plan.

- A system located in an AMA and regulated as a small provider may skip the Conservation Plan if it can demonstrate that it will be regulated as a large provider within the next five years. For instructions, see *A.R.S. § 45-342 F*.

If you have any questions, please contact us:

Planning and Data Management Division
Arizona Department of Water Resources
Phone: (602) 771-8585
Email: ecws@azwater.gov

For more information, go to http://www.azwater.gov/azdwr/StatewidePlanning/Drought/CWS.htm

PART 1 – WATER SUPPLY PLAN UPDATE

_____
Community Water System Name/Number

Does your system have a Designation of Assured or Adequate Water Supply? ☐Yes ☐No
If yes, you may skip this section (A.R.S. § 45-342) and continue with Part 2 – Drought Plan Update.

Please select how you will report water measurements in this form. Use either gallons or acre-feet, but not both
☐gallons ☐acre-feet
(Note: To convert acre-feet to gallons, multiply by 325,851. To convert gallons to acre-feet, divide by 325,851).

A. Service Area Lands

* Note: questions 1 through 5 refer to the CWS physical location and were answered on the Initial System Water Plan submitted by your CWS. Because an additional response is not required for these questions, they were omitted from this report.

6. Describe the area you serve on a separate attachment, if changed or expended from your previous SWP submitted. If you serve more than 1,850 people, you must also submit a service area map unless you have already submitted a map pursuant to A.R.S. § 498. The map or description should include the boundaries of your service area, interconnections, and transmission and distribution lines. (The map may also show streets, town limits, landmarks, etc.).

7. Type of area served (consider majority of area served). Please check all that apply:
   ☐Residential single family
   ☐Mixed uses (residential and non-residential)
   ☐Commercial
   ☐Mobile home park
   ☐Institutional (military base, school, or correctional facility)
   ☐Homeowners' Association or Co-operative
   ☐Other -- If other, please describe:

8. Typical or predominant landscaping type in residential areas: Please check only one type.
   ☐Low water-use landscaping
   ☐Turf
   ☐Not landscaped/not irrigated (dirt or natural desert)
   ☐No outdoor water use (e.g. mobile homes with no yards)
   ☐Other -- If other, describe:

B. Sources of Supply

1. Please check all sources of water supply used to meet demand in your system:
   ☐Groundwater
   ☐Non-CAP Colorado River water
   ☐CAP
   ☐Reclaimed water
   ☐Other surface water – (If other, list source here)

2. If you checked groundwater above, do you measure water levels in your wells? ☐Yes ☐No

3. For each well, provide the well registration number and the most recent water level measurement and date measured, if available. *(If more space is needed, please attach additional sheets.)*

ADWR Well Registration Number (55 - _____)	**Depth - to - Water**	**Date Measured**

C. Interconnections

NOTE: If you are located within an Active Management Area (AMA), interconnect agreements may be reviewed by the director of the ADWR pursuant to substantive policy statement GW37 as authorized by A.R.S. §45-492(C).

1. Do you have an interconnection with another water system? ☐Yes ☐No

2. If yes, list name of other system(s):

3. Describe the interconnections, including conditions under which water transfer can take place:

D. Water Sold and Purchased

1. Did you sell water to another water system during the past five years? ☐Yes ☐No
   If yes, list quantities and systems:

2. Did you purchase water from another water system during the past five years? ☐Yes ☐No
   If yes, list systems and quantities:
   Please use the same units (gallons or acre-feet) that you selected in Part 1.

E. System Production/Demand

1. How much water did you use from the sources below? If your system is not metered, please estimate. Please use the same units (gallons or acre-feet) that you selected previously.

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaimed Water	TOTAL
2011	Jan						
	Feb						
	Mar						
	Apr						
	May						
	Jun						
	Jul						
	Aug						
	Sep						
	Oct						
	Nov						
	Dec						
							Total

2011 average daily demand (divide total volume by 365 days) = _____

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaimed Water	TOTAL
2012	Jan						
	Feb						
	Mar						
	Apr						
	May						
	Jun						
	Jul						
	Aug						
	Sep						
	Oct						
	Nov						
	Dec						
							Total

2012 average daily demand (divide total volume by 365 days) = _____

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaimed Water	TOTAL
2013	Jan						
	Feb						
	Mar						
	Apr						
	May						
	Jun						
	Jul						
	Aug						
	Sep						
	Oct						
	Nov						
	Dec						
							Total

2013 average daily demand (divide total volume by 365 days) = _____

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaimed Water	TOTAL
2014	Jan						
	Feb						
	Mar						
	Apr						
	May						
	Jun						
	Jul						
	Aug						
	Sep						
	Oct						
	Nov						
	Dec						
							Total

2014 average daily demand (divide total volume by 365 days) = _____

Year	Month	Groundwater	Colorado River (Non-CAP)	CAP	Other Surface Water	Reclaimed Water	TOTAL
2015	Jan						
	Feb						
	Mar						
	Apr						
	May						
	Jun						
	Jul						
	Aug						
	Sep						
	Oct						
	Nov						
	Dec						
							Total

2015 average daily demand (divide total volume by 365 days) = _____

2. What days did you have the highest demand? If you are not sure, please estimate.
Please use the same units (gallons or acre-feet) that you selected previously.

	Estimated Peak Day Demand
2011	Date:
	Quantity:
2012	Date:
	Quantity:
2013	Date:
	Quantity
2014	Date:
	Quantity:
2015	Date:
	Quantity:

Was the production data you provided above mostly metered or mostly estimated?
☐ mostly metered ☐ mostly estimated

3. In the past five years, were there any instances where you were not able to meet peak demand?
Check either the first choice or any of the remaining choices that apply.

☐ Peak demand was always met
☐ Well pump failed
☐ Well casing collapsed
☐ Well went dry
☐ Storage tank failed
☐ Surface water shortage
☐ Distribution line break/failure
☐ Interconnect down
☐ Treatment facility problem/failure
☐ Other (Please describe):

F. Analysis of Projected Water Demand

1. Fill in the table below with your projected system population and projected demand. You may contact ADWR for assistance with projecting population and demand.
Please use the same units (gallons or acre-feet) that you selected previously.

Year	Projected population	Projected average daily demand on system
2021		
2026		
2036		

2. Do you anticipate problems meeting these future demands? ☐Yes ☐No

3. Do you expect any type of change in your area that could increase the demand on your water supply? Check either the first choice or any of the remaining choices that apply.

   ☐ No change expected
   ☐ Development
   ☐ Population increase
   ☐ Industry
   ☐ Agriculture
   ☐ Other (If other, describe):

4. Are you planning to make any changes to help you meet demand over the next 20 years? Check either the first choice or any of the remaining choices that apply.

   ☐ No changes planned
   ☐ Additional and/or improved conservation program
   ☐ Increased storage
   ☐ Additional wells
   ☐ Deepen wells
   ☐ Other state agency contact information
   ☐ Other (If other, please describe):

PART 2 – DROUGHT PLAN UPDATE

_____
Community Water System Name/Number

A. Emergency Operations Contact Person

Name:_____

Position:_____

Phone number:_____

B. Drought Plan of Action

1. Have your drought stages and associated management measures changed in the past five years?
   ☐Yes ☐No If yes, please describe each stage or attach a description.

2. Based on your current description of drought stages, what is the highest / worst stage you have declared in the past five years? Please check only one answer.
   ☐First stage = no drought, normal conditons
   ☐First stage = start of drought
   ☐Second stage
   ☐Third stage
   ☐Fourth stage

3. Based on your current description of drought stages, what stage of drought is your system currently in? Please check only one answer.
   ☐First stage = no drought, normal conditons
   ☐First stage = start of drought
   ☐Second stage
   ☐Third stage
   ☐Fourth stage

4. At which stage, if any, do your drought management measures begin to be mandatory? Please check only one answer.
   ☐No measures are ever mandatory
   ☐First stage = no drought, normal conditons
   ☐First stage = start of drought
   ☐Second stage
   ☐Third stage
   ☐Fourth stage

C. Implementation of Drought Stages

Have the indicators that you use for declaring drought stages changed?

(climate conditions, water supply availability, amount of supply in relation to demand, system infrastructure, well levels, reservoir levels, etc.)

☐Yes ☐No

If yes, either describe here, send or attach updated drought plan of action.

D. Communication with Customers

1. Do you utilize any of the following information to help you make determinations of drought stages?

	Yes	*No*	*Would like to receive*
Precipitation and weather forecasts	☐	☐	☐
Regional drought conditions	☐	☐	☐
Range and forage conditions	☐	☐	☐
Aquifer levels	☐	☐	☐
Other (Describe):	☐	☐	☐

2. Has your drought communication strategy or education program changed?

   ☐Yes ☐No If yes, please describe:

E. Emergency Supplies

1. Do you have an emergency backup water supply? Check either the first choice or any of the remaining choices that apply.

   ☐ We do not have a backup supply
   ☐ Utilize interconnection
   ☐ Haul water
   ☐ Use backup well
   ☐ Provide bottled water
   ☐ Drill new well
   ☐ Other (If other, please describe):

2. Should alternative/backup water supplies become necessary, do you have arrangements in place to obtain them?

   ☐Yes ☐No

3. Have you had to use any of the following methods to augment your supply in the last five years? Check either the first choice or any of the remaining choices that apply.

   ☐ No augmentation needed
   ☐ Use interconnection
   ☐ Haul water
   ☐ Use backup well
   ☐ Provide bottled water
   ☐ Drill new well
   ☐ Other (If other, please describe):

PART 3 – CONSERVATION PLAN UPDATE

Community Water System Name/Number

Is your system located in an Active Management Area (AMA) and regulated under one of the programs for large municipal water providers?

☐Yes ☐No

If yes, you may skip this section and continue with Part 4 – Certify and Submit.

Below are examples of water conservation measures or best management practices (BMPs) that can reduce water use, improve water efficiency, and enhance drought preparedness.

Please check all that apply.

CONSERVATION MEASURES (BEST MANAGEMENT PRACTICES)	Already implementing = ✓	Will implement in next 5 years = ✓	Would like more information = ✓
1. General Measures			
Wells are metered			
Service connections are metered			
Water rate structures encourage efficient water use (e.g. higher rates for higher use)			
Reclaimed water used for landscape watering			
2. Measures to Limit Lost and Unaccounted for Water			
Leak detection and repair			
Meter testing, repair and replacement			
Storage tank evaporation controls			
Infrastructure and/or storage facility improvements			
Elimination of illegal connections			
Other (Describe):			
3. Measures to Raise Public Awareness			
Free conservation handouts or materials for customers			
Conservation tips with water bills or on website			
Requesting that customers reduce water use by a % or in other ways			
Participation in special events and/or community programs			
Other (Describe):			
4. Measures to Assist Customers or Provide Outreach			
Residential audit program			
Advice on how to check home for leaks and make repairs			
Residential interior retrofit program			
Non-residential interior retrofit program			
Non-residential water budgeting program			
Residential or non-residential low water-use landscape information and/or consultations			
High water-use notification			
High water inquiry resolution			
Water waste investigations and assistance			
Other (Describe):			

5. Measures to Educate and/or Train Customers			
Adult education and/or training workshops and classes			
Youth education program			
Speakers bureau			
Xeriscape demonstration garden			
Other (Describe):			
6. Incentives for Efficient Water Use or Conservation			
Residential toilet rebate or incentive for efficient toilets			
Residential toilet replacement			
Rebates or incentives for other efficient fixtures or appliances			
Rebates or incentives for turf conversion or xeriscape installation			
Rebates or incentives for gray water or rainwater fixtures			
Non-residential rebates, incentives, loans, etc.			
Other (Describe):			
7. Measures to Restrict Water use (Conditions of Service or Ordinance)			
Prohibiting water waste or tampering			
Limiting turf or water intensive landscapes in new residences and/or developments			
Requiring low water-use landscapes			
Designating landscape watering days or times			
Prohibiting high water use activities (such as landscape watering) during peak demand hours			
Requiring water-conserving fixtures or appliances that are more efficient than specified in current state codes			
Requiring hot water recirculation devices			
Requiring retrofits on resale			
Requiring on-site rainwater harvesting			
Requiring gray water plumbing			
Requiring car wash recycling			
Requiring a water use plan for new large commercial or industrial customers			
Other (Describe):			
8. Innovation or Research Programs			
Evaluating a new technology or program			
Implementing a new technology or program			
Researching a new technology or program			
Other (Describe):			

PART 4: CERTIFY AND SUBMIT

_____
Community Water System Name/Number

I HEREBY CERTIFY that the above statements are true to the best of my knowledge and belief.

_____ _____
Name of the person preparing the form Title

_____
Signature of person preparing the form

_____
Date Submitted

_____ _____
Telephone Email

Please return form by mail, fax or email to:

Arizona Department of Water Resources
Planning and Data Management Division
P.O. Box 36020
Phoenix, AZ 85067-6020

FAX: 602-771- 8690

EMAIL: ecws@azwater.gov

THANK YOU!